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19/32 - (C) WPI / Thomson  
AN - 1989-054017 (07)  
AP - WO1988GB00580 19880719; EP19880905990 19880719; JP19880505910 19880719  
PR - GB19870017074 19870720  
TI - Article of varying thickness e.g. tapered disc - comprises fibre-reinforced matrix material incorporating elements partly crushed by applied external forces to give reduced thickness  
IW - ARTICLE VARY THICK TAPER DISC COMPRIZE FIBRE REINFORCED MATRIX MATERIAL INCORPORATE ELEMENT CRUSH APPLY EXTERNAL FORCE REDUCE  
PA - (COUR ) COURTAULDS PLC  
PN - WO8900497 A 19890126 DW198907  
EP0378541 A 19900725 DW199030  
JP3501953T T 19910509 DW199125  
IC - B29C43/12; B29D24/00; B29K105/06; B29L24/00; B32B3/20  
AB - Composite article of varying thickness comprises a fibre-reinforced matrix material incorporating a crushable element which is at least partly crushed by applying external forces to give the article a reduced thickness in the area of the crushed element. Specifically, the crushable element may comprise a layer of contiguous tubes each comprising braided filaments or yarns and of square or rectangular cross-section. The crushable element may be pre-impregnated with thermoplastic or thermosetting resin which is caused or allowed to set to maintain the desired profile. The external compressive forces may be applied by means of a yielding, pref. resilient plate and a shaped rigid moulding block located within a vacuum press comprising a rubber envelope which can be evacuated by means of a vacuum pump.  
- USE/ADVANTAGE :  
The article may be e.g. a disc tapering towards its periphery, or it may be formed with a central depression. It is cheaper to produce than machining a moulded prod. to a desired profile.